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The 1986 Iowa Corn Yield Test Report, District 1

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Abstract
Results of the Iowa Com Yield Test are published to aid Iowa farmers in selecting com varieties. This is the sixty-sixth consecutive year for the test.

Disciplines
Agriculture | Agronomy and Crop Sciences

IOWA STATE UNIVERSITY

AGRONOMY
• Crops
• Soils
• Climate

THE 1986 IOWA CORN YIELD TEST REPORT

District 1

Results of the Iowa Corn Yield Test are published to aid Iowa farmers in selecting corn hybrids. This is the sixty-seventh consecutive year for the test.

The presentation of data for the hybrids tested does not imply approval or endorsement by the authors or by the agencies sponsoring or conducting the test. Entries in tables 1, 2, and 3 are designated by brand name and variety.

1986 Procedure

Producers of corn seed and Iowa State University were eligible to enter varieties in the Iowa Corn Yield Test. Each producer was allowed a maximum of six entries per district. All entries had to be available in a quantity of at least 10 bushels of seed.

Two hundred thirty-one entries were evaluated in this test—121 in the early to medium maturity test and 110 in the medium to late maturity test. Fifteen of the entries determined to be widely grown were entered by Iowa State University and were planted in both the early and late maturity test. In June, on even numbered years, approximately 21,000 survey cards are mailed in the state. Recipients of these cards are determined by a random drawing of names from landowners listed in the county plat books. Based on the survey results, the 15 hybrids grown on the most acres in the district are classified as widely grown for that district. The widely grown hybrids (*) in this report were determined by the 1984 survey. Iowa State University entered a maximum of three widely grown hybrids of any given brand. These entries were given priority over the remaining 201 entries made by seed producers.

Each entry was replicated four times in four-row plots at a planting rate of 25,500 kernels per acre at each location. All locations were machine-planted. The center two rows of each plot were harvested with a corn combine. No gleanings or dropped ears were included in yield data. A moisture determination was made from each plot, and yields were corrected to 15.5 percent moisture for shelled corn.

How Information Is Presented

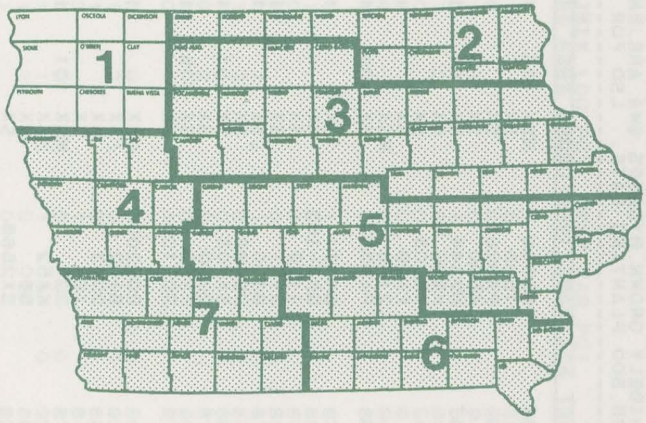
The data presented are averages of two locations in 1986, one location in 1985, and two locations in 1984. Yield in bushels per acre and percentage of moisture, root lodging, stalk lodging, dropped ears, and stand are shown for all entries in 1986 and for those tested in 1984 and 1985 that were in the 1986 test. Because of the large number of entries in the district, the test was split into two experiments based on maturity of the hybrids entered. Table 1 reports the average yields of hybrids entered in the early to medium maturity experiment and table 2 reports the average yields of hybrids entered in the medium to late maturity experiment. Both experiments were treated similarly.

Interpretation of Results

Yield differences due to variation in soil, fertility, moisture availability, insect infestation, and diseases, plus any variation due to planting and harvesting techniques, are identified through statistical analysis. The LSD values shown in tables 1, 2, and 3 represent, in bushels per acre, the amounts of yield variation that could be due to variations in the factors just mentioned. In comparing varieties, yield differences greater than the LSD value can be attributed to genetic differences in the yield potential of these varieties; yield differences less than the LSD value are not statistically different and could have been due to other factors.

Grain moistures shown in tables 1, 2, and 3 are indications of maturity and natural drying rate. Maturity of varieties entered generally ranged from early to full season. Yield comparisons should be made among varieties of similar maturity in the same test. Hybrid comparisons between table 1 and table 2 can be made only when using the average of the widely grown hybrids listed at the bottom of each table. The difference between these two values indicates the yield difference between the two tests. This difference must be added to or subtracted from the yield of the appropriate hybrid when making comparisons between tables.

It is important to select varieties having stable performance over a range of environmental conditions. High yields for two or more consecutive years indicate stable performance. Supplemental yield and agronomic information about specific varieties may be obtained from your seed corn dealers and from neighbors who have grown these varieties.



Prepared by K. E. Ziegler, instructor in agronomy.

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Agriculture and Home Economics Experiment Station,
Iowa Crop Improvement Association, and the
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TABLE 1. AVERAGE PERFORMANCE OF EARLY TO MEDIUM MATURING HYBRIDS TESTED IN DISTRICT 1.
WIDELY GROWN HYBRIDS (*) ARE ENTERED IN BOTH TESTS FOR COMPARISONS BETWEEN TABLE 1 AND TABLE 2.
25,500 PLANTING RATE. LSD FOR 1986 YIELD IN BUSHELS IS 11.

BRAND	VARIETY	CROSS	YIELD BU/A			MOISTURE PCT			ROOT LDG PCT			STALK LDG PCT			DROP EAR PCT			STAND PCT		
			1984	1985	1986	1986	1985	1984	1986	1985	1984	1986	1985	1984	1986	1985	1984	1986	1985	1984
GOLDEN HARVEST	H2300	MSX	104	151	133	16.7	18.1	17.5	1	0	4	0	5	11	1	1	1	87	89	89
NC+	1505	SX			126	17.3			0			4			0			84		
NORTHRUP KING	PX9283	SX			122	17.4			0			1			0			93		
HY-VIGOR	4500	SX			123	17.4			0			2			1			88		
GOLDEN HARVEST	H2344	SX		165	131	17.6	18.8		1	1		3	0		1	0		86	93	
KALTENBERG	KX55	SX			126	17.7			1			1			1			87		
AMES BEST	AB105	SX			116	17.7			3			2			0			83		
FEDERAL	FX29	SX		160	120	17.7	20.3		1	1		3	3		0	1		92	90	
SUPERCROST	2140	MSX			123	17.7			1			2			0			91		
NORTHRUP KING	PX9353	SX	104	143	123	17.8	19.2	18.3	0	0	0	1	1	8	0	1	1	83	91	92
FUNK	G4211	SX		133	103	17.8	19.6		0	8		0	1		0	0		72	85	
SHISSLER	GR8-162	SX			143	17.8			1			3			1			85		
WILSON	1125	SX			132	17.8			0			1			0			88		
PIONEER	3737	SX		158	124	17.9	18.0		0	0		0	1		0	0		85	92	
KRUGER	8100	SX		155	117	17.9	19.8		1	1		1	0		1	0		81	79	
DAHLGREN	DC498	SX			123	17.9			0			2			1			85		
SAR	SX103	SX	101	152	132	18.0	19.6	18.1	0	0	0	2	3	12	0	0	1	94	94	96
CENEX	2100	SX			136	18.0			0			0			0			86		
KELTGEN	KS95	SX	105	141	122	18.1	18.7	18.9	1	0	1	1	1	21	1	0	0	95	91	96
OTTILIE	RO2100	SX			131	18.1			1			2			0			91		
OTTILIE	RO2200	SX		164	123	18.1	21.9		1	0		2	0		0	0		85	88	
KRUGER	8102	SX			117	18.1			0			5			0			86		
FS	2243	SX			119	18.1			3			0			0			74		
CROWS	181	SX			108	18.2			0			2			1			95		
FS	227	MSX	101	163	122	18.2	20.0	18.5	0	0	2	1	0	13	0	0	1	88	92	96
KALTENBERG	KX52	SX			120	18.2			0			1			0			87		
AGRIPRO	560	SX			123	18.2			0			2			0			85		
HOEGEMEYER	SX2566	SX			119	18.3			0			1			0			86		
PAG	3987	SX			120	18.3			3			1			0			89		
CURRY	1436	SX			127	18.3			0			1			0			83		
*ASGROW/O'S GOLD	6880	SX	106	170	145	18.4	21.6	19.7	1	0	0	1	2	9	0	1	0	93	91	95
CARGILL	861	SX	97	166	133	18.4	20.2	18.8	0	0	0	5	2	18	1	0	1	89	90	96
*DEKALB	DK484	SX	96	157	125	18.4	20.5	18.3	0	0	0	3	1	12	0	0	1	88	84	95
RIVERSIDE	RS555	SX		158	135	18.4	20.6		0	1		1	0		0	0		95	89	
SAR	SX4400	SX		170	130	18.4	20.7		0	0		2	6		0	0		95	91	
PAYMASTER	2890	SX	99	186	136	18.5	20.4	18.8	0	0	0	3	4	12	0	0	0	86	100	95
KELTGEN	KS1010	SX			135	18.5			0			4			0			84		
DEKALB	DK524	SX			132	18.5			2			1			0			88		
PAYCO	SX788	SX			146	18.6			2			1			0			91		
JACOBSEN	JS41	SX	104	165	126	18.6	20.0	18.5	3	0	0	1	0	7	0	0	0	85	94	92
SUPERCROST	2288	SX	108	183	128	18.6	20.3	18.5	1	0	0	0	0	18	0	0	1	91	92	97
NC+	2222	SX		157	118	18.6	20.2		0	0		1	0		1	0		92	86	
CENEX	2098A	SX		134	107	18.6	20.5		3	0		3	4		1	2		76	87	
CARGILL	859	SX		177	114	18.6	19.8		2	2		1	1		1	0		85	93	
CURRY	1418	SX			117	18.6			0			1			0			80		
GRUHN HYBRID	SX2A	SX	96	160	132	18.7	22.6	19.6	1	1	0	1	3	14	0	0	0	87	85	82
RENZE	6242	SX		167	138	18.8	22.1		1	0		1	1		1	0		85	88	
KALTENBERG	KX60	SX		136	113	18.8	21.1		2	0		0	2		1	0		87	93	
NORTHRUP KING	PX9385	SX			125	18.8			0			0			1			88		
PRIDE	X1076	SX			127	18.8			0			0			0			90		
*PIONEER	3732	SX	110	152	132	18.9	20.9	19.2	0	0	1	1	1	9	1	0	0	91	93	93
AMES BEST	AB107	SX		167	134	18.9	21.0		2	1		2	3		0	0		88	85	
MCCURDY	4855	SX	104	162	133	18.9	21.0	18.3	1	1	0	1	3	13	0	0	1	92	88	94
FONTANELLE	4030	SX			136	18.9			4			1			0			94		
SAR	SX4804	SX			111	18.9			1			0			0			89		
HORIZON	4109	SX			118	18.9			0			3			0			81		
KRUGER	8106	SX		168	139	19.0	22.1		0	0		1	0		0	0		81	84	
*PIONEER	3747	SX			121	19.0			0			1			0			82		
WILSON	1440	SX		174	126	19.0	21.0		1	1		1	0		0	0		82	90	
S BRAND	SS40	SX			139	19.0			2			1			0			95		
*PIONEER	3713	MSX	101	154	118	19.1	21.7	19.6	1	0	1	2	1	14	0	0	1	84	92	93
*DEKALB	T1000	SX		169	133	19.1	21.7		1	0		1	3		0	0		91	90	
*CROWS	199	SX		160	127	19.1	20.6		0	0		1	1		0	0		87	88	
GOOD MORNING	GM221	SX		155	144	19.1	20.9		0	0		1	1		0	1		90	81	
CFS	E95014	SX			120	19.1			0			0			0			84		
KRUGER	8103	SX			127	19.1			1			2			0			89		
*PAYMASTER	2990	SX		171	137	19.2	22.3		1	0		1	2		1	0		90	94	
MCCURDY	4945	SX	100	164	130	19.2	21.0	19.7	3	0	1	1	2	21	0	0	0	89	88	93
CARGILL	874	SX	102	173	136	19.2	21.0	19.7	2	1	0	2	1	19	1	0	2	89	89	96
FUNK	G4312	SX			125	19.2			0			2			0			90		
CORNELIUS	C312	SX			129	19.2			1			1			0			92		
DAIRYLAND	DX1606	SX	109	160	143	19.3	22.5	19.5	2	2	0	1	1	8	0	0	0	93	82	90
*PAG	SX239	SX	108	167	134	19.3	21.6	19.9	0	1	0	2	1	13	0	0	0	92	88	96
AMES BEST	AB105A	SX			117	19.3			1			1			1			83		
MCCURDY	4737	SX		148	125	19.3	19.4		1	2		3	1		0	0		86	80	
KALTENBERG	KX63	SX		160	138	19.3	21.8		0	0		0	0		0	0		88	95	
PRIDE	5556	SX		166	134	19.4	21.7		1	1		1	1		0	0		93	91	
RENZE	6245	SX			130	19.4			0			3			0			86		
SU CROS CO	104	SX			115	19.4			1			1			0			85		
LAND O' LAKES	1071	SX		167	138	19.5	22.7		1	1		2	0		0	0		94	86	
GRUHN HYBRID	SX3AA	SX			132	19.5			2			2			0			93		
TERRA CHEMICALS	TR1040	SX			133	19.5			2			1			0			90		
DAHLGREN	DC515	SX			100	19.5			3			0			0			83		
NC+	3440	SX			142	19.6			3			1			0			92		
EK PREMIUM	EK7732	SX		140	129	19.6	23.5		2	0		0	1		1	0		82	77	
HOEGEMEYER	SX2578	SX			124	19.6			0			1			0			81		
DAIRYLAND	DX1108	SX			130	19.6			1			1			0			85		
MARK	MK86105	SX			145	19.6			1			1			0			95		
*CURRY	1424	SX	101	160	143	19.7	22.4	19.9	2	0	0	0	3	8	0	0	1	92	83	92
*JACQUES	JX167	SX	105	168	134	19.7	22.6	18.6	2	0	0	0	2	7	0	0	0	92	87	93
CFS	W5753	SX		174	138	19.7	22.1		1	0		2	3		1	0		88	93	
CROWS	212	SX			110	19.7			0			1			0			85		
LYNKS	LX4084	SX		146	135	19.7	20.4		1	2		1	1		0	0		92	95	
FONTANELLE	3730	SX			98	19.7			0			2			1			94		
FOUR STAR	5650	SX			137	19.7			0			2			3			89		
TRI VALLEY	105	SX			141	19.7			3			1			1			93		
PAYMASTER	4587	SX			123	19.7			2			3			0			90		
KELTGEN	KS1050	SX			122	19.8			3			1			0			90		
RENZE	6244	SX	107	163	134	19.9	22.7	19.9	3	0	0	0	1	5	0	0	1	88	89	94
EK PREMIUM	EK7725	SX			109	19.9			1			1			0			84		
LINCOLN SEED	LS5508	SX			104	19.9			1			1			1			86		
STAUFFER	S5260	SX	98	161	141	20.0	22.6	19.7	0	0	0	1	1	7	0	0	2	93	89	94
*CROWS	444	SX	101	162	134	20.0	23.4	20.8	0	0	0	0	0	19	0	0	0	91	86	95
KELTGEN	KS1020	SX	101	149	130	20.0	20.9	19.7	0	0	4	1	1	19	0	2	0	88	92	93
LYNKS	LX4102	SX		168	133	20.0	22.6		2	0		3	1		0	0		88	91	
SU CROS CO	108A	SX			139	20.1			0			3			1			90		
*JACQUES	7700	SX		166	145	20.2	23.3		2	0		1	1		1	1		93	86	
PAYMASTER	6127	SX			134	20.2			1			1			2			93		
AGRIPRO	644	SX			131	20.2			0			1			1			89		
CFS	6203	SX			130	20.3			2			4			0			91		
S BRAND	SS45A	SX			136	20.7			1			1			1			87		
ASGROW/O'S GOLD	2450	SX			137	20.8			0			2			1			94		
EK PREMIUM	EK7740	SX		151	134	20.8	23.7		0	0		1	0		1	0		88	77	
PRIDE	EXP111	SX			133	20.9			1			2			0			83		
MARK	MK86108	SX			143	21.0			2			3			1			86		
*DEKALB	T1100	SX		167	133	21.1	26.6		0	0		0	0		0	0		88	87	
*CROWS	431	SX		158	121	21.1	21.2		1	0		2	0		0	0		84	93	
GRUHN HYBRID	SX5A	SX	104	129	125	21.3	24.7	22.0	1	1	0	0	2	25	0	0	0	86	71	84
FOUR STAR	5760	SX			130	22.0			1			1			0			79		
SU CROS CO	111	SX			130	22.1			7			0			0			86		
CFS	7501	SX			131	23.1			0			0			0			82		
AVERAGE OF ALL ENTRIES			102.7	159.7	128.0	19.1	21.2	19.2	0.9	0.5	0.5	1.3	1.3	13.1	0.2	0.1	0.6	87.7	88.4	93.1
AVERAGE OF WIDELY GROWN ENTRIES			103.6	162.8	132.1	19.5	22.2	19.5	0.7	0.2	0.2	0.9	1.2	11.3	0.2	0.1	0.5	89.1	88.7	94.0

SX = SINGLE CROSS. MSX= MODIFIED SINGLE CROSS. 3X = 3-WAY CROSS. 4X = 4-WAY CROSS.
*WIDELY GROWN HYBRID ENTERED BY IOWA STATE UNIVERSITY AND ENTERED IN BOTH THE EARLY TO MEDIUM MATURITY TEST AND THE MEDIUM TO LATE MATURITY TEST FOR COMPARISONS BETWEEN TESTS.

TABLE 2. AVERAGE PERFORMANCE OF MEDIUM TO LATE MATURING HYBRIDS TESTED IN DISTRICT 1.
WIDELY GROWN HYBRIDS (*) ARE ENTERED IN BOTH TESTS FOR COMPARISONS BETWEEN TABLE 1 AND TABLE 2.
25,500 PLANTING RATE. LSD FOR 1986 YIELD IN BUSHELS IS 13.

BRAND	VARIETY	CROSS	YIELD BU/A			MOISTURE PCT			ROOT LDG PCT			STALK LDG PCT			DROP EAR PCT			STAND PCT		
			1984	1985	1986	1986	1985	1984	1986	1985	1984	1986	1985	1984	1986	1985	1984	1986	1985	1984
*CROWS	199	SX		133	139	17.9	21.5		2	0		1	1		0	0		89	85	
NC+	2561	SX			123	18.1			1			1			0			85		
SHISSLER	GR8-167	SX			107	18.2			0			0			0			81		
*ASGROW/O'S GOLD	6880	SX		164	144	18.4	22.5		0	0		1	1		0	0		94	93	
*DEKALB	DK484	SX		148	136	18.4	21.6		1	1		2	1		1	0		89	88	
FUNK	G4326	SX		151	119	18.4	21.9		0	0		1	2		0	0		86	91	
FUNK	G4327	SX			133	18.4			5			0			0			86		
SUPERCROST	2410	SX			141	18.5			1			1			0			91		
SAR	SX200A	SX			142	18.7			6			4			0			94		
*DEKALB	T1000	SX		158	139	18.8	23.0		1	0		1	2		0	0		89	90	
FS	275	SX			145	18.8			1			1			1			93		
PIONEER	3615	SX			130	18.8			0			1			0			89		
NC+	3884	SX			126	18.8			3			0			0			80		
JACOBSEN	JS53	SX			114	18.8			1			1			0			89		
*PAYMASTER	2990	SX	105	169	140	18.9	23.1	19.1	1	1	1	1	1	13	1	0	1	87	94	94
*PIONEER	3713	MSX		142	119	18.9	22.4		0	0		1	2		0	1		88	91	
*PAG	SX239	SX		156	141	18.9	23.3		1	0		1	0		0	1		89	89	
STAUFFER	S5750	SX		148	136	18.9	23.2		3	0		0	2		0	0		87	88	
STAUFFER	S5602	SX			136	19.0			3			1			0			90		
*PIONEER	3747	SX			123	19.1			2			0			1			87		
LINCOLN SEED	LS5445	SX	112	152	137	19.1	24.2	20.4	2	0	4	2	0	18	0	0	0	89	97	89
DAIRYLAND	DX1008	SX	93	153	140	19.2	24.2	20.4	4	0	0	1	2	11	0	0	1	92	92	86
CORNELIUS	C50SX	SX			130	19.2			0			1			0			86		
GOLDEN HARVEST	H2480	SX			121	19.3			3			3			1			84		
*PIONEER	3732	SX	105	148	125	19.3	22.0	19.5	0	0	0	1	0	16	0	0	0	87	93	95
PFISTER	1700	SX	107	156	143	19.3	23.5	19.1	0	0	1	1	1	5	1	0	0	93	90	94
GOLDEN HARVEST	H2452	SX		168	117	19.3	21.9		4	0		1	2		0	0		86	86	
AGRIPRO	AP391	SX			130	19.3			1			1			0			85		
PAG	5157	SX			142	19.3			0			1			0			89		
*CROWS	444	SX	98	147	133	19.4	24.4	20.4	0	0	1	0	1	19	0	0	0	85	89	96
RIVERSIDE	RS40A	SX			142	19.4			1			1			0			87		
PAG	SX267	SX	108	145	126	19.4	24.8	21.2	3	0	0	1	1	26	0	0	0	88	82	93
S BRAND	SS52	SX		159	115	19.4	25.0		1	2		0	1		0	0		72	85	
*CURRY	1424	SX		144	138	19.5	24.2		1	0		1	1		0	0		89	82	
FS	454	SX	109	153	149	19.5	24.4	19.4	1	0	1	1	1	10	0	0	1	91	90	98
FUNK	G4428	SX			145	19.5			4			1			0			88		
*JACQUES	JX167	SX		155	143	19.6	23.2		1	0		1	0		0	0		91	78	
SAR	SX209	SX	96	151	142	19.7	23.2	20.1	0	0	0	0	1	12	0	0	0	88	89	90
SUPERCROST	3030	SX			130	19.7			0			1			0			89		
KELTGEN	KS1070	SX		157	121	19.7	22.5		2	0		0	0		0	1		91	89	
DEKALB	DK562	SX			124	19.7			0			1			0			88		
WILSON	1500B	SX	118	157	134	19.8	23.4	20.2	1	0	1	1	2	17	0	1	0	89	90	92
PIONEER	3475	SX		153	131	19.8	21.6		0	0		1	1		0	1		86	89	
CORNELIUS	C55SX	SX			138	19.8			4			1			1			92		
MARK	MK87107	SX			130	19.8			1			0			0			90		
MCCURDY	6555	SX	105	155	140	19.9	25.6	20.2	1	0	2	2	0	17	0	1	0	89	85	96
*JACQUES	7700	SX		163	139	19.9	23.7		2	0		1	1		0	0		92	88	
LAND O' LAKES	555	SX			136	19.9			1			2			1			89		
PAG	6127	SX			134	19.9			3			1			0			92		
GRUHN HYBRID	SX7AA	SX	104	148	129	20.0	24.5	19.8	2	0	5	1	2	33	0	0	1	92	88	95
MCCURDY	5750	SX	109	162	148	20.0	24.2	19.7	2	0	3	1	2	17	0	1	2	89	93	94
KALTENBERG	KX64	SX			144	20.0			2			0			1			90		
NORTHRUP KING	X4325	SX			129	20.0			0			0			0			91		
NORTHRUP KING	PX9470	SX			127	20.0			0			0			0			88		
PAYCO	SX710	SX			137	20.0			1			0			0			94		
AGRIPRO	680	SX			139	20.0			3			1			0			88		
SAR	SX5100	SX		150	135	20.1	24.3		3	1		1	1		1	0		89	86	
HOEGEMEYER	SX2595	SX		149	141	20.1	24.2		0	0		1	2		1	0		93	87	
FS	4484	SX			134	20.1			0			0			0			85		
MCCURDY	5596	SX			126	20.2			0			1			0			92		
LINCOLN SEED	LS5433	SX	109	157	133	20.2	27.5	22.8	1	0	2	1	0	33	0	0	0	87	91	94
GOLDEN HARVEST	H2465	SX			137	20.2			1			0			0			93		
HY-VIGOR	6200	SX			136	20.2			1			1			1			89		
STAUFFER	S5340	SX	113	138	131	20.3	24.5	19.8	5	0	1	1	1	15	1	0	1	87	90	93
TRI VALLEY	109	SX			141	20.3			2			1			0			91		
PAYCO	SX872	SX	111	145	141	20.4	24.9	20.1	1	0	7	1	1	14	1	0	2	91	87	91
HOEGEMEYER	SX2625	SX	113	154	145	20.4	23.4	20.3	2	1	4	2	1	16	1	1	2	90	84	88
LYNKS	LX4304	SX			153	20.4	25.8		2	0		1	2		0	0		85	83	
FS	6566	SX			153	20.4	23.4		2	0		2	3		1	1		91	86	
RENZE	6334	SX	111	159	132	20.4	23.7	19.9	2	0	5	1	1	11	0	1	1	96	89	90
GOOD MORNING	GM231	SX		143	126	20.4	24.4		0	0		0	1		1	1		89	82	
KELTGEN	KS1090	SX		152	141	20.4	23.9		4	0		1	0		0	0		89	91	
HORIZON	5111	SX			109	20.4			0			0			0			81		
JACOBSEN	JS51	SX		153	138	20.5	23.6		0	1		1	0		0	0		90	90	
CARGILL	889	SX	100	151	112	20.5	23.8	20.0	11	3	2	2	1	14	3	0	1	88	90	93
NC+	4505	SX		159	138	20.5	28.2		1	1		2	1		0	0		87	85	
CARGILL	893	SX		154	126	20.5	25.1		3	0		1	1		1	0		94	89	
CROWS	344	SX			126	20.5			0			1			0			88		
LYNKS	LX4313	SX			94	20.5			1			0			0			82		
FONTANELLE	4253	SX			136	20.6			0			0			0			86		
OTTILIE	RO2420	SX		144	125	20.7	24.1		1	1		1	1		2	0		89	84	
PFISTER	2300	SX			134	20.7			2			1			2			91		
GOOD MORNING	GM245	SX		132	149	20.7	28.1		1	1		1	1		1	0		92	73	
SHISSLER	GR8-171	SX		148	129	20.7	23.4		3	0		0	1		1	0		89	81	
TERRA CHEMICALS	TR3260	SX		151	125	20.7	25.1		1	0		0	2		0	0		89	91	
RENZE	6335	SX			130	20.7			2			1			1			85		
LYNKS	LX4235	SX	107	143	133	20.8	23.7	19.7	2	1	6	1	1	16	1	0	1	92	81	92
PRIDE	6692	SX	108	144	142	20.9	27.2	22.1	4	0	1	1	0	18	0	0	1	92	79	92
PFISTER	2600	SX			138	20.9			2			1			1			84		
HORIZON	4111	SX			140	20.9			2			2			0			89		
FONTANELLE	4230	SX			133	21.0			4			2	

TABLE 3. AVERAGES OF 1985-86 AND 1984-86 OF VARIETIES TESTED IN DISTRICT 1 .
LSD FOR YIELDS ARE 5 BUSHELS FOR 84-86 AND 6 BUSHELS FOR 85-86.

BRAND	VARIETY	CROSS	YIELD BU/A		MOISTURE PCT		ROOT LDG PCT		STALK LDG PCT		DROP EAR PCT		STAND PCT	
			84-86	85-86	85-86	84-86	84-86	85-86	84-86	85-86	84-86	85-86	84-86	85-86
GOLDEN HARVEST	H2300	MSX	129	142	17.4	17.4	2	1	5	2	1	1	88	88
PIONEER	3737	SX		141	17.9			0		1		0		88
GOLDEN HARVEST	H2344	SX		148	18.2			1		2		0		90
KELTGEN	KS95	SX	123	132	18.4	18.6	0	0	7	1	0	0	94	93
NORTHRUP KING	PX9353	SX	123	133	18.5	18.4	0	0	3	1	1	0	89	87
FUNK	G4211	SX		118	18.7			4		0		0		78
SAR	SX103	SX	128	142	18.8	18.6	0	0	6	2	0	0	95	94
KRUGER	8100	SX		136	18.8			1		1		0		80
FEDERAL	FX29	SX		140	19.0			1		3		0		91
FS	227	MSX	129	142	19.1	18.9	1	0	5	0	0	0	92	90
CARGILL	859	SX		145	19.2			2		1		0		89
CARGILL	861	SX	132	149	19.3	19.1	0	0	8	4	0	0	92	90
JACOBSEN	JS41	SX	131	145	19.3	19.0	1	1	3	1	0	0	90	89
MCCURDY	4737	SX		136	19.3			1		2		0		83
NC+	2222	SX		137	19.4			0		0		0		89
SUPERCROST	2288	SX	140	156	19.4	19.1	0	0	6	0	0	0	93	91
PAYMASTER	2890	SX	140	161	19.4	19.2	0	0	6	3	0	0	94	93
RIVERSIDE	RS555	SX		146	19.5			1		0		0		92
SAR	SX4400	SX		150	19.5			0		4		0		93
CENEX	2098A	SX		121	19.5			2		3		1		82
*DEKALB	DK484	SX	127	142	19.7	19.2	0	0	5	2	0	0	90	87
*CROWS	199	SX		140	19.8			1		1		0		87
KALTENBERG	KX60	SX		124	19.9			1		1		0		90
AMES BEST	AB107	SX		151	19.9			1		2		0		86
MCCURDY	4855	SX	133	147	19.9	19.4	1	1	5	2	0	0	91	90
GOOD MORNING	GM221	SX		150	20.0			0		1		0		85
OTTILIE	RO2200	SX		143	20.0			0		1		0		86
WILSON	1440	SX		150	20.0			1		0		0		86
LYNKS	LX4084	SX		140	20.0			1		1		0		93
SUPERCROST	2410	SX	142	157	20.1	19.8	0	0	4	1	0	0	93	91
MCCURDY	4945	SX	131	147	20.1	20.0	1	1	8	2	0	0	90	89
CARGILL	874	SX	137	154	20.1	20.0	1	1	7	1	1	0	91	89
SAR	SX200A	SX	137	153	20.1	20.0	3	4	5	2	0	0	93	91
FUNK	G4326	SX		135	20.1			0		1		0		88
*ASGROW/O'S GOLD	6880	SX	139	156	20.2	20.0	0	0	4	1	0	0	93	92
*PIONEER	3732	SX	128	139	20.3	20.0	0	0	5	1	0	0	92	91
STAUFFER	S5602	SX	137	149	20.3	19.9	1	2	4	2	0	0	92	89
FS	275	SX	142	164	20.3	20.1	1	1	5	0	0	1	93	93
RENZE	6242	SX		152	20.4			1		1		0		87
KELTGEN	KS1020	SX	127	140	20.4	20.2	1	0	7	1	1	1	91	90
*PIONEER	3713	MSX	123	133	20.5	20.2	0	0	6	1	0	0	90	89
KRUGER	8106	SX		154	20.5			0		0		0		82
PRIDE	5556	SX		150	20.5			1		1		0		92
KALTENBERG	KX63	SX		149	20.5			0		0		0		91
GOLDEN HARVEST	H2452	SX		143	20.6			2		2		0		86
*DEKALB	T1000	SX		150	20.6			0		2		0		90
GRUHN HYBRID	SX2A	SX	129	146	20.6	20.3	0	1	6	2	0	0	85	86
SUPERCROST	3030	SX		154	20.6			1		1		0		92
EK PREMIUM	EK7725	SX		128	20.6			1		2		0		83
AGRIPRO	AP391	SX	132	144	20.6	20.9	0	1	5	0	0	0	91	90
PIONEER	3475	SX		142	20.7			0		1		0		87
*PAG	SX239	SX	136	150	20.8	20.5	0	1	5	1	0	0	92	89
KELTGEN	KS1050	SX		137	20.8			2		0		0		91
*PAYMASTER	2990	SX	138	154	20.9	20.3	1	1	5	1	0	0	92	91
DAIRYLAND	DX1006	SX	137	151	20.9	20.4	1	2	4	1	0	0	88	88
CFS	W5753	SX		156	20.9			1		2		0		91
STAUFFER	S5750	SX		142	21.0			1		1		0		87
FUNK	G4312	SX		142	21.0			0		1		0		90
RIVERSIDE	RS40A	SX	135	151	21.1	20.4	1	0	4	1	1	0	89	87
LAND O' LAKES	1071	SX		152	21.1			1		1		0		90
KELTGEN	KS1070	SX		139	21.1			1		0		0		90
*JACQUES	JX167	SX	135	150	21.3	20.4	1	1	3	1	0	0	89	87
RENZE	6244	SX	135	149	21.3	20.8	1	1	2	0	0	0	90	88
STAUFFER	S5260	SX	133	151	21.3	20.8	0	0	3	1	1	0	92	91
LYNKS	LX4102	SX		150	21.3			1		2		0		89
PFISTER	1700	SX	135	149	21.4	20.6	0	0	2	1	0	0	92	91
KALTENBERG	KX64	SX	135	150	21.4	20.9	2	1	4	0	1	0	89	88
*CURRY	1424	SX	131	146	21.4	20.9	1	1	3	1	0	0	88	87
SAR	SX209	SX	130	147	21.4	21.0	0	0	4	0	0	0	89	89
EK PREMIUM	EK7732	SX		135	21.5			1		0		0		79
*CROWS	431	SX		134	21.6			1		1		0		86
WILSON	1500B	SX	136	145	21.6	21.1	0	0	6	1	0	0	90	90
LINCOLN SEED	LS5445	SX	134	145	21.6	21.2	2	1	6	1	0	0	91	93
CFS	6203	SX		144	21.7			1		4		0		92
DAIRYLAND	DX1008	SX	129	146	21.7	21.3	1	2	4	1	0	0	90	92
*JACQUES	7700	SX		153	21.8			1		1		0		89
*CROWS	444	SX	129	144	21.8	21.4	0	0	6	0	0	0	90	88
HOEGEMEYER	SX2625	SX	137	149	21.9	21.4	2	1	6	2	1	1	88	87
FS	6566	SX		147	21.9			1		2		1		89
FS	454	SX	137	151	21.9	21.1	1	1	4	1	0	0	93	90
JACOBSEN	JS51	SX		146	22.0			0		0		0		90
RENZE	6334	SX	134	146	22.0	21.3	2	1	4	1	1	1	91	92
SHISSLER	GR8-171	SX		144	22.0			1		0		0		85
MCCURDY	5750	SX	140	155	22.1	21.3	2	1	6	1	1	0	92	91
PAG	SX267	SX	126	136	22.1	21.8	1	1	9	1	0	0	88	85
CARGILL	889	SX	121	131	22.1	21.4	5	7	5	1	1	1	91	89
KELTGEN	KS1090	SX		146	22.1			2		1		0		90
HOEGEMEYER	SX2595	SX		145	22.1			0		2		0		90
SAR	SX5100	SX		142	22.2			2		1		1		87
S BRAND	SS52	SX		137	22.2			1		1		0		78
LYNKS	LX4235	SX	128	138	22.2	21.4	3	1	6	1	1	0	88	86
EK PREMIUM	EK7740	SX		142	22.2			0		1		0		82
GRUHN HYBRID	SX7AA	SX	127	138	22.3	21.4	2	1	12	1	0	0	92	90
FONTANELLE	4230	SX		146	22.3			2		1		0		89
STAUFFER	S5340	SX	127	135	22.4	21.5	2	2	6	1	0	0	90	89
OTTILIE	RO2420	SX		135	22.4			1		1		1		87
GOOD MORNING	GM231	SX		135	22.4			0		1		1		86
PAYCO	SX872	SX	132	143	22.6	21.8	3	1	5	1	1	1	89	89
DAIRYLAND	DX1107	SX	131	139	22.7	21.9	2	2	6	2	1	0	87	87
MCCURDY	6555	SX	134	148	22.7	21.9	1	0	6	1	0	0	90	87
CARGILL	893	SX		140	22.8			2		1		0		92
TERRA CHEMICALS	TR3260	SX		138	22.9			0		1		0		90
GRUHN HYBRID	SX5A	SX	119	127	23.0	22.7	1	1	9	1	0	0	80	78
LYNKS	LX4304	SX		146	23.1			1		2		0		84
LINCOLN SEED	LS5433	SX	133	145	23.8	23.5	1	1	11	0	0	0	90	89
PRIDE	6692	SX	131	143	24.0	23.4	2	2	6	0	0	0	88	85
OTTILIE	RO2450	SX	127	132	24.1	23.4	0	0	8	1	0	0	85	81
EK PREMIUM	EK7780	SX	124	135	24.2	22.9	1	1	7	1	0	0	87	82
NC+	4505	SX		148	24.3			1		1		0		86
PAG	SX269	SX		139	24.3			0		1		0		89
GOOD MORNING	GM245	SX		140	24.4			1		1		0		83
*DEKALB	T1100	SX	134	149	24.5	23.9	1	1	7	0	0	0	90	88
ASGROW/O'S GOLD	6882	SX	130	142	24.8	24.1	1	1	9	1	0	0	87	84
FUNK	G4440	SX		146	25.0			1		1		0		88
OTTILIE	RO2460	SX		152	25.2			0		0		1		90
EK PREMIUM	EK7796	SX	132	140	26.7	25.6	1	1	8	1	0	0	91	89

1986 Field Data

The District 1 test was conducted on farms operated by William Morris near Sheldon in Sioux County and by the Jones Brothers near Rossie in Clay County. Wind and hail damage the latter part of July resulted in reduced yields at the Clay County location. Field data are listed in table A.

Subsoil moisture for the district was favorable to wet at planting time. Both locations received below normal rainfall in May and June. In July the Sioux County location received below normal rainfall while the Clay County location received well above normal rainfall. In August the Sioux County location received well above normal rainfall and the Clay County location received above normal rainfall. In September both locations received well above normal rainfall. Temperatures for both locations were above normal from April through July, well below normal in August, and near normal in September. The average district yield was 10 bushels per acre above the mean of the five preceding years' averages.

Table A. Field Data

	Morris Farm Marcus silty clay loam			Jones Farm Everly clay loam		
Fertilizer applied, lb.	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Plowdown	180	84	124	—	—	—
Preplant	—	—	—	130	80	100
TOTAL	180	84	124	130	80	100
1985 crop	Soybeans			Soybeans		
Row width	30 inches			30 inches		
Planting date	May 7 & 8			May 6 & 7		
Harvest date	Oct. 29-30			Oct. 31, Nov. 1 & 3		

Other Reports

Separate reports for variety performance are available for each district shown in figure 1. These publications are available at your county extension office or from Publications Distribution. Printing and Publications Building, Iowa State University, Ames, Iowa 50011.

The 1986 Iowa Corn Yield Test Report:
Pm-660-1-86 District 1
Pm-660-2-86 District 2
Pm-660-3-86 District 3
Pm-660-4-86 District 4
Pm-660-5-86 District 5
Pm-660-6-86 District 6
Pm-660-7-86 District 7

District 1
Designations Identifying Brands in the Yield Test

AGRIPRO	AgriPro, Mission, KS 66201
AMES BEST	Ames Best Hybrids, Ames, IA 50010
*ASGROW/O'S GOLD	Asgrow Seed Company, Kalamazoo, MI 49001
CARGILL	Cargill Seeds, Minneapolis, MN 55440
CENEX	Cenex, St. Paul, MN 55164-0089
CFS	Custom Farm Seed, Momence, IL 60954
CORNELIUS	Cornelius Seed Corn Co., Bellevue, IA 52031
*CROWS	Crows Hybrid Corn Co., Milford, IL 60953
*CURRY	Curry Seed Co., Elk Point, SD 57025
DAHLGREN	Dahlgren & Co., Inc., Crookston, MN 56716
DAIRYLAND	Dairyland Seed Co., West Bend, WI 53095
*DEKALB	Dekalb Pfizer Genetics, DeKalb, IL 60115
EK PREMIUM	EK Premium, Berwick, IL 61417
FEDERAL	Federal Hybrids, Marion, IA 52302
FONTANELLE	Fontanelle Hybrids, Nickerson, NE 68044
FOUR STAR	Four Star Seed Co., Parkersburg, IA 50665
FS	Growmark, Inc., Bloomington, IL 61701
FUNK	Funk Seeds International, Inc., Bloomington, IL 61701
GOLDEN HARVEST	ROB-SEE-CO Golden Harvest, Waterloo, NE 68069
GOOD MORNING	Meis Seed & Feed Co., LeMars, IA 51031
GRUHN HYBRID	Gruhn Hybrids, Manilla, IA 51454
HOEGEMEYER	Hoegemeyer Hybrids, Inc., Hooper, NE 68031
HORIZON	Horizon Seeds, Inc., Lincoln, NE 68501
HY-VIGOR	Hy-Vigor Seeds, Inc., Paullina, IA 51046
JACOBSEN	Jacobsen Hybrid Corn Co., Inc., Lake View, IA 51450
*JACQUES	Jacques Seed Company, Prescott, WI 54021
KALTENBERG	Kaltenberg Seed Farms, Waunakee, WI 53597
KELTGEN	Keltgen Seed Co., Olivia, MN 56277
KRUGER	Kruger Seed Company, Dike, IA 50624
LAND O' LAKES	LAND O' LAKES Inc., Fort Dodge, IA 50501
LINCOLN SEED	Lincoln Seed, Sioux City, IA 51101
LYNKS	Lynks Hybrids, Marshalltown, IA 50158
MARK	Mark Seed Co., Perry, IA 50220
MCCURDY	McCurdy Seed Co., Fremont, IA 52561
NC+	NC+ Hybrids, Lincoln, NE 68504
NORTHRUP KING	Northrup King Co., Belmond, IA 50421
OTTILIE	Ottilie R. O. Seeds, Marshalltown, IA 50158
*PAG	PAG Seeds, Minneapolis, MN 55440
PAYCO	Payco Seeds, Inc., Dassel, MN 55325
*PAYMASTER	Paymaster Seeds, Minneapolis, MN 55440
PFISTER	Pfister Hybrid Corn Co., El Paso, IL 61738
*PIONEER	Pioneer Hi-Bred International, Inc., Johnston, IA 50131
PRIDE	Pride Company, Inc., Glen Haven, WI 53810
RENZE	Renze Hybrids, Inc., Carroll, IA 51401
RIVERSIDE	Lynnville Seed Co., Lynnville, IA 50153
S BRAND	Schechinger Seed Co., Harlan, IA 51537
SAR	Sar Hybrids, Inc., Charles City, IA 50616
SHISSLER	Shissler Seed Co., Elmwood, IL 61529
STAUFFER	Stauffer Seeds, Springfield, IL 62704
SU CROS CO	Su Cros Co Hybrids, Inc., Manilla, IA 51454
SUPER CROST	Edward J. Funk & Sons, Inc., Kentland, IN 47951
TERRA CHEMICALS	Terra Chemicals Int., Inc., Sioux City, IA 51101
TRI VALLEY	Tri Valley Seed, Council Bluffs, IA 51501
WILSON	Wilson Hybrids, Inc., Harlan, IA 51537

*Companies with one or more widely grown entries made by Iowa State University.

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